Application No. Applicant(s) COOLBAUGH ET AL. 10/711,744

Notice of Allowability	Examiner	Art Unit	
<u> </u>	Thomas L. Dickey	2826	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	olication. If not includ will be mailed in due	led course. THIS
1. This communication is responsive to <u>amendment after fina</u>	<i>I filed 4/28/06</i> .	•	
2. The allowed claim(s) is/are <u>1-8,14-18 and 20-22</u> .	•		
 3. Acknowledgment is made of a claim for foreign priority unall all b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No		ation from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	- •	complying with the re	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF
 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the property of of	on's Patent Drawing Review (PTO-9 Amendment / Comment or in the O 84(c)) should be written on the drawing	ffice action of	e back) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I			Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal Pa	•	O-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary Paper No./Mail Date	e	•
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8),7. ☐ Examiner's Amendment8. ☑ Examiner's Stateme9. ☐ Other)w _. ance

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

Claims 1-8,14-18, and 20-22 are allowed over the references of record because none of these references disclosed or can be combined to yield the claimed invention such as a Schottky barrier diode comprising an active area; a guard ring that is one of disjointed, a non-closed loop, and missing a portion in at least one dimension; at least one separation region bounding the active area; and an electrode formed in the active area to form a Schottky junction, wherein the at least one separation region reduces parasitic capacitance about the Schottky junction, as recited in claim 1, or a necessary method of making the same, as recited in claim 14.

In Statutory Invention Disclosure H000040, Buchanan et al. disclose a Schottky barrier diode comprising an active area 12; a guard ring 22 that is spiral shaped and thus a disjointed, non-closed loop, and missing a portion; and an electrode 16 formed in the active area 12 to form a Schottky junction. However, Buchanan et al. neither discloses nor suggests at least one separation region bounding active area 12 to reduce parasitic capacitance about the Schottky junction.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas L Dickey whose telephone number is 571-272-1913. The examiner can normally be reached on Monday-Thursday 8-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J Flynn can be reached on 571-272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas L. Dickey Patent Examiner Art Unit 2826

05/06